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AMSAT NEWS SERVICE
ANS-282

The AMSAT News Service bulletins are a free, weekly news and information service of AMSAT, The Radio Amateur Satellite Corporation. ANS publishes news related to Amateur Radio in Space including reports on the activities of a worldwide group of Amateur Radio operators who share an active interest in designing, building, launching and communicating through analog and digital Amateur Radio satellites.

The news feed on http://www.amsat.org publishes news of Amateur Radio in Space as soon as our volunteers can post it.

Please send any amateur satellite news or reports to: ans-editor [at] amsat.org

You can sign up for free e-mail delivery of the AMSAT News Service Bulletins via the ANS List; to join this list see: https://mailman.amsat.org/postorius/lists/ans.amsat.org/

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DATE 2022 October 9

Post Tropical Storm Ian: Artemis 1 Launch Window Rescheduled for November

Teams at NASA□s Kennedy Space Center in Florida conducted initial inspections Friday to assess potential impacts from Hurricane Ian. There was no damage to Artemis flight hardware, and facilities are in good shape with only minor water intrusion identified in a few locations. Next, engineers will extend access platforms around the Space Launch System rocket and Orion spacecraft inside the Vehicle Assembly Building (VAB) to prepare for additional inspections and start preparation for the next launch attempt, including retesting the flight termination system.

As teams complete post-storm recovery operations, NASA has determined it will focus Artemis I launch planning efforts on the launch period that opens Nov. 12 and closes Nov. 27. Over the coming days, managers will assess the scope of work to perform while in the VAB and identify a specific date for the next launch attempt. Focusing efforts on the November launch period allows time for employees at Kennedy to address the needs of their families and homes after the storm and for teams to identify additional checkouts needed before returning to the pad for launch.

[ANS thanks NASA for the above information]

Final Call for Papers - 2022 AMSAT Space Symposium & Annual General Meeting

This is a call for papers for the 40th annual AMSAT Space Symposium to be held on the weekend of October 21-22, 2022 at the Crowne Plaza Suites hotel in Bloomington, Minnesota.

Proposals for symposium papers and presentations are invited on any topic of interest to the amateur satellite community. We request a tentative title of your presentation as soon as possible, with final copy submitted by October 14 for inclusion in the symposium proceedings. Abstracts and papers should be sent to Dan Schultz, N8FGV at n8fgv at amsat.org

[ANS thanks Dan Schultz, N8FGV, AMSAT Symposium Proceedings Editor, for the above information.]

40th AMSAT Space Symposium and Annual General Meeting, October 21-22

The 40th AMSAT Space Symposium and Annual General Meeting will take place in Bloomington, Minnesota. on Oct. 21-22, 2022. Highlights of all scheduled events include:

- AMSAT Board of Directors Meeting, October 20-21
- 40th AMSAT Space Symposium and Annual General Meeting, October 21-22
- Friday Night Social and Auction, October 21
- AMSAT Banquet and Reception, October 22
- AMSAT Ambassador Breakfast, October 23

A preliminary schedule is available on the AMSAT Member Portal, launch.amsat.org, under the Events tab.

Crowne Plaza is located adjacent to the Minneapolis / St. Paul International Airport and provides complimentary, scheduled shuttle to and from the airport. Nearby attractions include Mall of America with Nickelodeon Universe Theme park, Target Field, and the Minnesota Zoo.

Hotel reservations at reduced rate may no longer be available as Sunday, October 2nd was the announced deadline. You can still make hotel reservations by calling the hotel directly at (952) 854-9000. The group code is ASG (Amateur Satellite Group). Hotel reservations can also be made online at the following link: https://tinyurl.com/ANS-219-Symposium-Rooms.

Symposium tickets and banquet reservations may be purchased on the AMSAT Member Portal. Log into https://launch.amsat.org/ and clock on the Events tab.

We at AMSAT, are excited to be able to host an in-person Symposium this year. We hope that you can join us in celebrating Amateur Radio in Space.

[ANS thanks AMSAT for the above information.]

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https://www.amsat.org/join-the-amsat-presidents-club/
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VUCC Satellite Standing October 2022

VUCC Satellite Award/Endorsement Change Summary for September 01, 2022 to October 02, 2022.

WA4NVM	1609	1632
K8DP	1322	1350
N8RO	1139	1151
AA5PK	1132	1149
N9EAT	843	910
N3GS	729	796
KE8RJU	577	650
WA4HFN	611	631
KE8FZT	576	625
W8LR	619	623
S57NML	508	615
VE1CWJ	???	609
DF2ET	500	601
EA2AA	566	594
AD0HJ	500	523
N0GVK	311	401
KB1HY	353	395
NA1ME	327	350
VE7PTN	294	301
W3VHF	210	250
JH0BBE	206	226
VA3VGR	164	209
NK1K	194	204
WD9EWK (DM22)	189	195
WD9EWK (DM42)	164	171
PA7RA	156	160
I2OIM	New	155
XE1UYS	New	126
IK8YTA	New	106
Z31RQ	New	103
AA9VI	New	100
KE8RPJ	New	100
KF2T	New	100
VE7CYA	New	100
W9LN	New	100

Congratulations to the new VUCC holders.
XE1UYS is first VUCC Satellite holder from EK19
I2OIM is first VUCC Satellite holder from JN45
Z31RQ is first VUCC Satellite holder from Macedonia and 1st from KN01

73 Jon N7AZ

[ANS thanks Jon Goering, N7AZ, AMSAT VUCC Manager for the above information.]

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Amateurs and others around the world may listen in on contacts between amateurs operating in schools and allowing students to interact with astronauts and cosmonauts aboard the International Space Station. The downlink frequency on which to listen is 145.800 MHz worldwide.

Harris Middle School, Spruce Pine, N.C., direct via K4CF. The ISS callsign is presently scheduled to be NA1SS. The downlink frequency is presently scheduled to be 145.800 MHz. The scheduled crewmember is Bob Hines KI5RQT. Contact is go for: Tue 2022-10-11 15:00:45 UTC 34 deg

Regional Communications Center of Russian Railways, Vologda, Russia, direct via TBD (***). The ISS callsign is presently scheduled to be RSØISS. The downlink frequency is presently scheduled to be 145.800 MHz. The scheduled crewmember is Anna Kikina (***). Contact is go for Thu 2022-10-13 08:55 UTC (***)

Kjell Lindgren KO5MOS continues to be making general contacts on the cross-band repeater. He is using NA1SS. If any crewmember is so inclined, all they have to do is pick up the microphone, raise the volume up, and talk on the crossband repeater. So give a listen, you just never know.

Two IIS Crew-5 astronauts have amateur radio callsigns. Josh A. Cassada (Crew-5 Pilot) is KI5CRH. JAXA astronaut Koichi Wakata (Mission Specialist) is KC5ZTA. The NASA SpaceX Crew-5 mission to the ISS was launched on Wednesday October 5.

The latest information on the operation mode can be found at https://www.ariss.org/current-status-of-iss-stations.html

The latest list of frequencies in use can be found at https://www.ariss.org/contact-the-iss.html

[ANS thanks Charlie Sufana, AJ9N, one of the ARISS operation team mentors and NASA News for the above information]

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is currently closed, but 10/16 will be ad hoc passes on the trip GA->NY:
https://bit.ly/3VlOeky

[ANS thanks Paul Overn, KE0PBR, AMSAT rover page manager and AMSAT for the above information]

Changes to AMSAT-NA TLE Distribution for October 6, 2022

The following satellite has been added BACK to this week's AMSAT-NA TLE distribution:

AO-16 NORAD Cat ID 20439 (TNX to Mark Hammond, N8MH, for this "heads up"). Per Mark Hammond, N8MH, AO-16 has entered a period of full sunlight for the first time in many years. Based on past experience, AO-16 might warm up and wake up. So, use the AO-16 TLE to listen for an old friend.

The following satellites have decayed from orbit and have been removed from this week's AMSAT-NA TLE distribution:

ELFIN-B NORAD Cat ID 43616 (decayed from orbit on 9/30/22 per Space-Track).
BINAR-1 NORAD Cat ID 49272 (decayed from orbit on 9/30/22 per Space-Track).

[ANS thanks Ray Hoad, WA5QGD, AMSAT Orbital Elements Manager, for the above information]

Hamfests, Conventions, Maker Faires, and Other Events

AMSAT Ambassadors provide presentations, demonstrate communicating through amateur satellites, and host information tables at club meetings, hamfests, conventions, maker faires, and other events.

AMSAT Ambassador Schedules:

AMSAT Ambassador and ARRL instructor Clint Bradford, K6LCS, has these upcoming "Working Amateur Satellites With Your HT sessions ...

Tri-State Amateur Radio Society, Indiana
Northern CA DX Club
Radio Amateurs of Greater Syracuse (NY)

A re-scheduled presentation to SOARA - the South Orange County (CA) Amateur Radio Association. Clints local ER and cardiologist had unplanned and unexpected procedures for him last month when the SOARA session was originally scheduled - but all is a GO! now for SOARA!

AMSAT Ambassadors make it their missions to show ALL that they really can work FM voice satellites - including the International Space Station - with minimal equipment
 gear that many probably already own.

Clint has presented his session more than 150 times to clubs, conventions, and hamfests in the US, Canada, and Great Britain. A recent attendee wrote:

"I really enjoyed Clints presentation last night. The fact that he had taken the time to research and know something about his audience and welcomed interaction made it very informative and enjoyable. This was a refreshing change from many canned YouTube presentations Ive tried to watch, which were poorly done, fuzzy video or muddy audio, or a badly prepared presenter stumbling his way through, with any valuable info lost along the way. Thanks for hooking this one up.

Do you think your club or convention would be interested in a 75-minute live Zoom presentation on working the "easy" satellites? Send an email or call!

Clint Bradford K6LCS
- work-sat.com
- Voicemail - (909) 999-SATS
- Email - k6lcs AT ham-sat.info

Scheduled Events with AMSAT involvement:

Hamfests and Conventions

40th Annual AMSAT Space Symposium and General Meeting
October 21-22, 2022
The Crowne Plaza Suites
3 Appletree Square, Bloomington, MN
https://launch.amsat.org/event-4922878

[ANS thanks Paul Overn, KE0PBR, AMSAT Events Page Manager, for the above information]

Satellite Shorts From All Over

+ SpaceX to save Hubble? At SpaceX's request, NASA and SpaceX signed an unfunded Space Act Agreement to cooperate on a six-month study of the feasibility for a Polaris Program mission to boost Hubble's orbit. Without a boost, the thrusterless telescope is expected to re-enter and burn up around 2037—now at ~535 km, it has lost about 30 km since the final Shuttle visit 13 years ago. It seems Jared Isaacman's nascent commercial space program is looking for useful things to do, and this certainly qualifies. Their first mission, Polaris Dawn, is scheduled for NET March 2023 and includes plans for the first commercial spacewalk. If NASA decides to move forward with the reboost, other companies will also likely get to bid (perhaps unless Polaris decides to do it for free). Related: NASA originally envisioned periodically boosting Hubble with an uncrewed Orbital Maneuvering Vehicle as an augment to the Shuttle program. (ANS thanks The Orbital Index for the above information)

+ Two NASA astronauts, a veteran Japanese space flier, and the first Russian cosmonaut to launch on a U.S. spacecraft since 2002 soared into orbit Wednesday from Kennedy Space Center in Florida aboard a SpaceX Falcon 9 rocket, in what could signal an easing of tension between NASA and the new leadership of the Russian space agency. The four-person crew rode a SpaceX Dragon spacecraft to docking at the space station at 5:01 p.m. EDT (2101 GMT) Thursday to begin a five-month science expedition. (ANS thanks Spaceflight Now for the above information)

+ Firefly reaches orbit. After its dramatic launch failure a year ago, and a last-second T-0 launch abort (after ignition) a few days ago, Firefly Aerospace's Alpha rocket has now reached orbit. The 3am launch from Vandenberg was visible up and down the California coast. Onboard were educational and tech demonstration cubesats and an open source PicoBus deployer (source) from Libra Space Foundation which carries tiny PocketQube satellites from them (satellite tracking), FOSSA Systems (IoT), and AMSAT-EA (amateur radio). The Alpha small-lift launch vehicle is the first rocket powered by a tap-off cycle to reach orbit and is also the first in a bevy of new rockets in the 1,000 kg to LEO / 745 kg to SSO class, with Terran 1, Miura 5, and RS-1 all on the way. Its most direct current competitors are the Long March 6 and JAXA's Epsilon, leaving it with little immediate Western commercial competition. Firefly's next vehicle, currently named MLV, is a Falcon 9 competitor with a capacity of 13 tons to LEO. (ANS thanks The

Orbital Index for the above information)

+ Sergei Krikalev, head of Russia's human space flight programs, told reporters that Roscosmos had started "to discuss extending our participation in ISS program with our government and hope to have permission to continue next year." With ties between Russia and the West rupturing over the war in Ukraine, Roscosmos chief Yuri Borissov had announced over the summer that Russia would leave the ISS "after 2024", and would seek to build its own space station. He has not set a firm date for that plan.(ANS thanks Space Daily and AFP for the above information)

Join AMSAT today at https://launch.amsat.org/

In addition to regular membership, AMSAT offers membership to:

* Societies (a recognized group, clubs or organization).
* Primary and secondary school students are eligible for membership at one-half the standard yearly rate.
* Post-secondary school students enrolled in at least half time status shall be eligible for the student rate for a maximum of 6 post-secondary years in this status.
* Memberships are available for annual and lifetime terms.

Contact info [at] amsat.org for additional membership information.

73 and remember to help Keep Amateur Radio in Space!

This week's ANS Editor, Jack Spitznagel, KD4IZ
kd4iz at arrl dot org